

Kathleen Hartnett White, *Chairman*  
Larry R. Soward, *Commissioner*  
Martin A. Hubert, *Commissioner*  
Glenn Shankle, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
*Protecting Texas by Reducing and Preventing Pollution*

November 17, 2006

MR. JAY CHARLES  
GENERAL MANAGER  
HOUSTON BIODIESEL LLC  
3600 S GESSNER STE 200  
HOUSTON TX 77063

Permit by Rule Registration Number: 80186  
Location/City/County: 11666 Port Road, Seabrook, Harris County  
Project Description/Unit: Biodiesel Production Plant  
Regulated Entity Number: RN105088926  
Customer Reference Number: CN603110826  
New or Existing Site: New  
Affected Permit (if applicable): None  
Renewal Date (if applicable): None

Houston Biodiesel LLC has certified the emissions associated with the construction and operation of the Biodiesel Production Plant under Title 30 Texas Administrative Code §§ 106.261 and 106.262.  
For rule information see [www.tceq.state.tx.us/permitting/air/nav/numerical\\_index.html](http://www.tceq.state.tx.us/permitting/air/nav/numerical_index.html).

The company is also reminded that these facilities may be subject to and must comply with other state and federal air quality requirements. This certification is authorized on behalf of the TCEQ Executive Director. If you have questions, please contact Ms. Nancy Akintan at (713) 767-3773.

Sincerely,

Certified Emissions:

VOCs	5.10	tpy
------	------	-----

A handwritten signature in black ink, appearing to read "Anne M. Inman".

Anne M. Inman, P.E., Manager  
General/Standard/Rule (GSR) Permit Section  
Air Permits Division

cc: Mr. Ralph G. Chalet, P.E.; Senior Project Manager, Response Management Associates, Inc.,  
Houston  
Mr. Badruddin (Bud) Karachiwala, Director, Pollution Control Department, Harris County  
Public Health and Environmental Services, Pasadena  
Air Section Manager, Region 12 – Houston

Project Number: 125362

RECEIVED  
APR 18 2007  
TCEQ  
CENTRAL FILE ROOM

# TECHNICAL REVIEW: AIR PERMIT BY RULE

Permit No.:	80186	Company Name:	Houston Biodiesel LLC	APD Reviewer:	Ms. Nancy Akintan
Project No.:	125362	Unit Name:	Biodiesel Production Plant	PBR No(s).:	106.261 and 106.262

GENERAL INFORMATION			
Regulated Entity No.:	RN105088926	Project Type:	Permit by Rule Application
Customer Reference No.:		Date Received by TCEQ:	October 19, 2006
Account No.:		Date Received by Reviewer:	November 13, 2006
City/County:	Seabrook, Harris County	Physical Location:	11666 Port Road

CONTACT INFORMATION					
Responsible Official/ Primary Contact Name and Title:	Jay Charles General Manager	Phone No.:	(713) 914-9193	Email:	
		Fax No.:	(713) 914-9249		
Technical Contact/ Consultant Name and Title:	Ralph Chalet Senior Project Manager	Phone No.:	(281) 379-7197	Email:	
		Fax No.:			

GENERAL RULES CHECK	YES	NO	COMMENTS
Is confidential information included in the application?		X	
Are there affected NSR or Title V permits for the project?		X	
Is each PBR > 25/250 tpy?		X	
Are PBR sitewide emissions > 25/250 tpy?		X	
Are there permit limits on using PBRs at the site?		X	
Is PSD or Nonattainment netting required?		X	
Do NSPS, NESHAP, or MACT standards apply to this registration?		X	
Does NOx Cap and Trade apply to this registration?		X	
Is the facility in compliance with all other applicable rules and regulations?	X		

DESCRIBE OVERALL PROCESS AT THE SITE
Houston Biodiesel LLC operates Biodiesel processing plant in Seabrook, Harris County. This registration is to authorize the construction and operation of a Biodiesel Production plant under 106.261 and 106.262.

DESCRIBE PROJECT AND INVOLVED PROCESS
The applicant submitted a PI-7CERT to authorize and federally enforce the emissions associated with the construction and operation of a Biodiesel Production plant. The facility will be constructed within a leased portion of the property owned by LBC Houston LLC, a for hire public storage terminal. As designed, the facility will lease all liquid VOC storage and loading from LBC Houston, LLC. Therefore, this PBR will not address the storage and loading of the material used or produced at the facility. The LBC Houston will address the loading and their storage under their current permit or if necessary PBR. LBC will provide all necessary utilities and waste water stream will be directed to the GCWDA. A detailed description of the production process is on file. There is only one point vent exiting the facility, that the Unit 10 (Methanol Recovery System) Scrubber outlet. This stream qualifies under 106.262 and all the piping fugitive emissions qualifies under 106.261.

TECHNICAL SUMMARY - DESCRIBE HOW THE PROJECT MEETS THE RULES
<b>Compliance with rule 106.261</b>
1. The facility change is not specifically authorized in another permit by rule.
2. The emission source is located more than 1500 feet from the nearest off-plant receptor.
3. Total new or increased emissions claimed under 106.261(2) and 106.261(3) are below the required limits.
4. There will be no changes to or additions of any existing air pollution abatement equipment.
5. There will be no visible emissions exceeding 5.0 % opacity in any six-minute period
<b>Compliance with 106.262:</b>
1. The facility change is not specifically authorized in another permit by rule.
2. The emission source is located more than 1500 feet from the nearest off-plant receptor.
3. Total new or increased emissions will not exceed E as determined by using the equation $E = L/K$ . see table below
4. There will be no change to or additions of air pollution abatement equipment as a result of this.
5. There will be no increase in visible emissions.
6. TCEQ Form PI-7 is included.

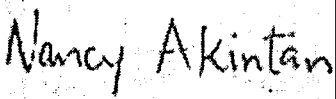
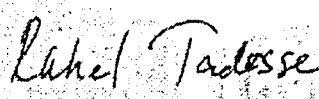
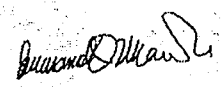
# **TECHNICAL REVIEW: AIR PERMIT BY RULE**

<b>Permit No.:</b>	80186	<b>Company Name:</b>	Houston Biodiesel LLC	<b>APD Reviewer:</b>	Ms. Nancy Akintan
<b>Project No.:</b>	125362	<b>Unit Name:</b>	Biodiesel Production Plant	<b>PBR No(s).:</b>	106.261 and 106.262

Compound	L mg/m3	K	D(feet)	Applicable PBR	Allowable Emissions E (lb/hr)	Actual Emissions (lb/hr)	Actual Emissions (tpy)
Methanol (UNIT 10)	260	34	1500	106.262	6.0	1.1	4.4
Methanol (FUG)	260	34	1500	106.262	6.0	0.10	0.43
Glycerin	NA	NA	1500	106.261(a)(3)	1.0	0.04	0.18
Methyl Ester	NA	NA	1500	106.261(a)(3)	1.0	0.02	0.10

ESTIMATED EMISSIONS													
EPN / Emission Source	Specific VOC or Other Pollutants	VOC		NOx		CO		PM <sub>10</sub>		SO <sub>2</sub>		Other	
		lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
FUG		0.16	0.7										
UNIT 10		1.1	4.4										
<b>TOTAL EMISSIONS (TPY):</b>			5.1										
<b>MAXIMUM OPERATING SCHEDULE:</b>		<b>Hours/Day</b>		<b>Days/Week</b>		<b>Weeks/Year</b>		<b>Hours/Year</b>		8000			

SITE REVIEW / DISTANCE LIMIT	Yes	No	Description/Outcome	Date	Reviewed by
Site Review Required?		X			
PBR Distance Limits Met?	X		>185 feet from the nearest property line & >1500 feet from the nearest off-plant receptor.	11/13/06	As represented by the company

	TECHNICAL REVIEWER	PEER REVIEWER	FINAL REVIEWER
<b>SIGNATURE:</b>			
<b>PRINTED NAME:</b>	Ms. Nancy Akintan	Ms. Rahel Tadesse	Emmanuel Ukandu, P.E.
<b>DATE:</b>	11/13/06	11/14/06	11/15/2006

BASIS OF PROJECT POINTS	POINTS
Base Points:	1.5
Project Complexity Description and Points: Additional PBR	0.5
Technical Reviewer Project Points Assessment:	2.0
Final Reviewer Project Points Confirmation:	2.0

11/17/2006 ----- NSR PERMITS IMS- PROJECT RECORD -----

PROJECT#: 125362      PERMIT#: 80186      STATUS: P      DISP CODE: C  
RECEIVED: 10/19/2006      PROJTYPE: XRVW      RENEWAL:  
FEE DATE: 10/20/2006      FEE AMT: \$ 450      PROJ-ISSUE DATE: 11-17-06  
STDY,PBR#,STDP: 0261, 0262 CHECK NUMBER: 2771  
PROJECT NAME: BIODIESEL PRODUCTION PLANT

GROUP: PAR

PAR1\_2 : BOWERS, JOHNNY

GROUP: HRT

TECHENGR : AKINTAN, NANCY

**ADMIN REVIEW**

A - PAR RECEIVED :      10/19/2006      A - CN/RN REC FROM      10/23/2006      A - CN/RN REQ FROM      10/23/2006  
CENTRAL REG :      CENTRAL REG :  
A - PAR TRANSFER TO      10/24/2006  
APD :

ISSUED TO: HOUSTON BIODIESEL LLC

COMPANY NAME: HOUSTON BIODIESEL LLC

CUSTOMER REGISTRY ID: CN603110826

**PRIMARY CONTACT INFORMATION**

CONTACT TYPE: TECHNICAL CONTACT

NAME: MR RALPH CHAIET PE

TITLE: SENIOR PROJECT MANAGER

EMPLOYER NAME: RESPONSE MANAGEMENT ASSOCIATES INC

PHONE: 281-379-7197 ext

FAX: -- ext

STREET: 5718 CHEENA DR

CITY/STATE, ZIP: HOUSTON, TX , 77096-

CONTACT TYPE: RESPONSIBLE OFFICIAL

NAME: MR JAY CHARLES

TITLE: GENERAL MANAGER

EMPLOYER NAME: HOUSTON BIODIESEL LLC

PHONE: 713-914-9193 ext

FAX: 713-914-9249 ext

STREET: 3600 S GESSNER STE 200

CITY/STATE, ZIP: HOUSTON, TX , 77063-

**PROJECT INFORMATION**

UNIT: BIODIESEL PRODUCTION PLANT

SIC: 4925      REGION: 12      ACCOUNT:

REG ENTITY ID:  
RN105088926

SITE NAME: HOUSTON BIODIESEL PRODUCTION PLANT

COUNTY: HARRIS

CAPUNITS:

UNITTYPE:

CAPACITY:

CITY: SEABROOK

LOCATION: 11666 PORT ROAD

**PUBLIC NOTICE**

PUBLIC NOTICE REQUIRED?: N      PN1 ALT LANGUAGE: NO      PN2 ALT LANGUAGE: NO

**EMISSION  
RATES**